

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-90 (canceled)

Claim 91 (currently amended): ~~The exhaust aftertreatment combined filter and catalytic converter according to claim 9.~~ An exhaust aftertreatment combined filter and catalytic converter comprising a plurality of flow channels each having both: a) a flow-through channel catalytically reacting with exhaust; and b) a wall-flow channel trapping particulate, wherein said exhaust aftertreatment
5 combined filter and catalytic converter comprises a plurality of sheets, at least one of which comprises a filter media sheet, said sheets defining said plurality of flow channels, including flow-through channels catalytically reacting with said exhaust and including wall-flow channels in the same said flow channels as said flow-through channels and passing exhaust through said filter media sheet and trapping particulate thereat, wherein exhaust flows axially through said exhaust
10 aftertreatment combined filter and catalytic converter, and wherein said flow-through channels and said wall-flow channels have axially overlapped channel sections in said flow channels, and wherein exhaust flows axially through said exhaust aftertreatment combined filter and catalytic converter from an upstream end to a downstream end, said filter media sheet has a first face facing upstream and has a second face facing downstream, each said flow-through channel has a portion
15 extending downstream from said second face of said filter media sheet, and wherein said exhaust aftertreatment combined filter and catalytic converter comprises first, second and third serially sequential surfaces in each said flow channel, wherein said exhaust flows firstly along and through said first sequential surface, then secondly along and through said second sequential surface, then thirdly along said third sequential surface, wherein said first face of said filter media sheet is said
20 first sequential surface, said second face of said filter media sheet is said second sequential surface, and said overlapped section of said flow-through channel is said third sequential surface, wherein

25 said flow-through channel is a channel through which exhaust flows and exits without passing
through a barrier or wall which traps particulate, said wall-flow channel is a channel through which
exhaust flows and exits by crossing a barrier or wall which traps particulate, and wherein said wall-
flow channel is in an inserted position in said flow-through channel, wherein exhaust flows axially
along an axial flow direction along an axis, and wherein said sheets comprise first, second and third
sheets, said second sheet being pleated and forming with said first sheet a plurality of axially
extending flow channels, said second sheet having a plurality of pleats defined by wall segments
extending in alternating manner between pleat tips at axially extending bend lines, the pleat tips on
30 one side of said second sheet being contiguous relation with said first sheet, said third sheet having
a plurality of pleats defined by wall segments extending in zig-zag manner between pleat tips at
transversely extending bend lines which extend transversely to said axis and transversely to said
first sheet, said first sheet extending axially and extending laterally relative to said transversely
extending bend lines of said pleat tips of said third sheet.

Claim 92 (previously presented): The exhaust aftertreatment combined filter and catalytic
converter according to claim 91 wherein said axis and said transverse extension of said pleat tips of
said third sheet and said lateral extension of said first sheet are all orthogonal relative to each other.

Claim 93 (currently amended): ~~The exhaust aftertreatment combined filter and catalytic converter~~
~~according to claim 12~~ An exhaust aftertreatment combined filter and catalytic converter comprising
a plurality of flow channels each having both: a) a flow-through channel catalytically reacting with
exhaust; and b) a wall-flow channel trapping particulate wherein said exhaust aftertreatment
5 combined filter and catalytic converter comprises a plurality of sheets, at least one of which
comprises a filter media sheet, said sheets defining said plurality of flow channels, including flow-
through channels catalytically reacting with said exhaust and including wall-flow channels in the
same said flow channels as said flow-through channels and passing exhaust through said filter
media sheet and trapping particulate thereat, wherein exhaust flows axially through said exhaust

10 aftertreatment combined filter and catalytic converter, and wherein said flow-through channels and
said wall-flow channels have axially overlapped channel sections in said flow channels, and
wherein exhaust flows axially through said exhaust aftertreatment combined filter and catalytic
converter from an upstream end to a downstream end, said filter media sheet has a first face facing
upstream and has a second face facing downstream, each said flow-through channel has a portion
15 extending upstream from said first face of said filter media sheet, and wherein said exhaust
aftertreatment combined filter and catalytic converter comprises first, second and third serially
sequential surfaces in each said flow channel, wherein said exhaust flows firstly along said first
sequential surface, then secondly along and through said second sequential surface, then thirdly
along and through said third sequential surface, wherein said portion of said flow-through channel
20 is said first sequential surface, said first face of said filter media sheet is said second sequential
surface, and said second face of said filter media sheet is said third sequential surface, wherein said
flow-through channel is a channel through which exhaust flows and exits without passing through a
barrier or wall which traps particulate, said wall-flow channel is a channel through which exhaust
flows and exits by crossing a barrier or wall which traps particulate, and wherein said wall-flow
25 channel is in an inserted position in said flow-through channel, wherein exhaust flows axially along
an axial flow direction along an axis, and wherein said sheets comprise first, second and third
sheets, said second sheet being pleated and forming with said first sheet a plurality of axially
extending flow channels, said second sheet having a plurality of pleats defined by wall segments
extending in alternating manner between pleat tips at axially extending bend lines, the pleat tips on
30 one side of said second sheet being contiguous relation with said first sheet, said third sheet having
a plurality of pleats defined by wall segments extending in zig-zag manner between pleat tips at
transversely extending bend lines which extend transversely to said axis and transversely to said
first sheet, said first sheet extending axially and extending laterally relative to said transversely
extending bend lines of said pleat tips of said third sheet.

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Claim 94 (previously presented): The exhaust aftertreatment combined filter and catalytic converter according to claim 93 wherein said axis and said transverse extension of said pleat tips of said third sheet and said lateral extension of said first sheet are all orthogonal relative to each other.